

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/767,308A

Source: 1 Fw/b

Date Processed by STIC: 1/13/06

# ***ENTERED***

## CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/767,308A

CRF Edit Date: 1/17/06  
Edited by: LM

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

J  
\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:  
8

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:  
\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:  
\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:  
\_\_\_\_\_

J  
\_\_\_ Other:  
Sequence 2 - deleted 2217-2237 section, since  
only 2459 nucleotides were in the sequence, and  
since no h's were in the sequence



IFW

RAW SEQUENCE LISTING                      DATE: 01/17/2006  
 PATENT APPLICATION: US/10/767,308A              TIME: 13:40:54

Input Set : A:\PTO.AMC.txt  
 Output Set: N:\CRF4\01172006\J767308A.raw

```

4 <110> APPLICANT: Kapeller-Libermann, Rosana
5      White, David
6      MacBeth, Kyle J.
8 <120> TITLE OF INVENTION: 2786, A NOVEL HUMAN AMINOPEPTIDASE
10 <130> FILE REFERENCE: MPI99-193CN2M
12 <140> CURRENT APPLICATION NUMBER: US 10/767,308A
13 <141> CURRENT FILING DATE: 2004-01-29
15 <150> PRIOR APPLICATION NUMBER: US 09/443,795
16 <151> PRIOR FILING DATE: 1999-11-19
18 <150> PRIOR APPLICATION NUMBER: US 10/056,253
19 <151> PRIOR FILING DATE: 2002-01-24
21 <160> NUMBER OF SEQ ID NOS: 8
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 650
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
31 Met Ala Ser Gly Glu His Ser Pro Gly Ser Gly Ala Ala Arg Arg Pro
32 1      5      10      15
33 Leu His Ser Ala Gln Ala Val Asp Val Ala Ser Ala Ser Asn Phe Arg
34      20      25      30
35 Ala Phe Glu Leu Leu His Leu His Leu Asp Leu Arg Ala Glu Phe Gly
36      35      40      45
37 Pro Pro Gly Pro Gly Ala Gly Ser Arg Gly Leu Ser Gly Thr Ala Val
38      50      55      60
39 Leu Asp Leu Arg Cys Leu Glu Pro Glu Gly Ala Ala Glu Leu Arg Leu
40 65      70      75      80
41 Asp Ser His Pro Cys Leu Glu Val Thr Ala Ala Ala Leu Arg Arg Glu
42      85      90      95
43 Arg Pro Gly Ser Glu Glu Pro Pro Ala Glu Pro Val Ser Phe Tyr Thr
44      100     105     110
45 Gln Pro Phe Ser His Tyr Gly Gln Ala Leu Cys Val Ser Phe Pro Gln
46      115     120     125
47 Pro Cys Arg Ala Ala Glu Arg Leu Gln Val Leu Leu Thr Tyr Arg Val
48      130     135     140
49 Gly Glu Gly Pro Gly Val Cys Trp Leu Ala Pro Glu Gln Thr Ala Gly
50 145     150     155     160
51 Lys Lys Lys Pro Phe Val Tyr Thr Gln Gly Gln Ala Val Leu Asn Arg
52      165     170     175
53 Ala Phe Phe Pro Cys Phe Asp Thr Pro Ala Val Lys Tyr Lys Tyr Ser
54      180     185     190
55 Ala Leu Ile Glu Val Pro Asp Gly Phe Thr Ala Val Met Ser Ala Ser

```

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Input Set : A:\PTO.AMC.txt

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```

56          195          200          205
57 Thr Trp Glu Lys Arg Gly Pro Asn Lys Phe Phe Phe Gln Met Cys Gln
58          210          215          220
59 Pro Ile Pro Ser Tyr Leu Ile Ala Leu Ala Ile Gly Asp Leu Val Ser
60 225          230          235          240
61 Ala Glu Val Gly Pro Arg Ser Arg Val Trp Ala Glu Pro Cys Leu Ile
62          245          250          255
63 Asp Ala Ala Asn Glu Glu Tyr Asn Gly Val Ile Glu Glu Phe Leu Ala
64          260          265          270
65 Thr Gly Glu Lys Leu Phe Gly Pro Tyr Val Trp Gly Arg Tyr Asp Leu
66          275          280          285
67 Leu Phe Met Pro Pro Ser Phe Pro Phe Gly Gly Met Glu Asn Pro Cys
68          290          295          300
69 Leu Thr Phe Val Thr Pro Cys Leu Leu Ala Gly Asp Arg Ser Leu Ala
70 305          310          315          320
71 Asp Val Ile Ile His Glu Ile Ser His Ser Trp Phe Gly Asn Leu Val
72          325          330          335
73 Thr Asn Ala Asn Trp Gly Glu Phe Trp Leu Asn Glu Gly Phe Thr Met
74          340          345          350
75 Tyr Ala Gln Arg Arg Ile Ser Thr Ile Leu Phe Gly Ala Ala Tyr Thr
76          355          360          365
77 Cys Leu Glu Ala Ala Thr Gly Arg Ala Leu Leu Arg Gln His Met Asp
78          370          375          380
79 Ile Thr Gly Glu Glu Asn Pro Leu Asn Lys Leu Arg Val Lys Ile Glu
80 385          390          395          400
81 Pro Gly Val Asp Pro Asp Asp Thr Tyr Asn Glu Thr Pro Tyr Glu Lys
82          405          410          415
83 Gly Phe Cys Phe Val Ser Tyr Leu Ala His Leu Val Gly Asp Gln Asp
84          420          425          430
85 Gln Phe Asp Ser Phe Leu Lys Ala Tyr Val His Glu Phe Lys Phe Arg
86          435          440          445
87 Ser Ile Leu Ala Asp Asp Phe Leu Asp Phe Tyr Leu Glu Tyr Phe Pro
88          450          455          460
89 Glu Leu Lys Lys Lys Arg Val Asp Ile Ile Pro Gly Phe Glu Phe Asp
90 465          470          475          480
91 Arg Trp Leu Asn Thr Pro Gly Trp Pro Pro Tyr Leu Pro Asp Leu Ser
92          485          490          495
93 Pro Gly Asp Ser Leu Met Lys Pro Ala Glu Glu Leu Ala Gln Leu Trp
94          500          505          510
95 Ala Ala Glu Glu Leu Asp Met Lys Ala Ile Glu Ala Val Ala Ile Ser
96          515          520          525
97 Pro Trp Lys Thr Tyr Gln Leu Val Tyr Phe Leu Asp Lys Ile Leu Gln
98          530          535          540
99 Lys Ser Pro Leu Pro Pro Gly Asn Val Lys Lys Leu Gly Asp Thr Tyr
100 545          550          555          560
101 Pro Ser Ile Ser Asn Ala Arg Asn Ala Glu Leu Arg Leu Arg Trp Gly
102          565          570          575
103 Gln Ile Val Leu Lys Asn Asp His Gln Glu Asp Phe Trp Lys Val Lys
104          580          585          590

```

## RAW SEQUENCE LISTING

DATE: 01/17/2006

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TIME: 13:40:54

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01172006\J767308A.raw

```

105 Glu Phe Leu His Asn Gln Gly Lys Gln Lys Tyr Thr Leu Pro Leu Tyr
106      595      600      605
107 His Ala Met Met Gly Gly Ser Glu Val Ala Gln Thr Leu Ala Lys Glu
108      610      615      620
109 Thr Phe Ala Ser Thr Ala Ser Gln Leu His Ser Asn Val Val Asn Tyr
110 625      630      635      640
111 Val Gln Gln Ile Val Ala Pro Lys Gly Ser
112      645      650
114 <210> SEQ ID NO: 2
115 <211> LENGTH: 2459
116 <212> TYPE: DNA
117 <213> ORGANISM: Homo sapiens
119 <220> FEATURE:
120 <221> NAME/KEY: CDS
121 <222> LOCATION: (62)...(2011)
123 <400> SEQUENCE: 2
124 gcgggccgcgt cgacctcccc tcgggttcgc ggcccggccg gtagagcaacg gctctgcggc      60
125 c atg gcg agc ggc gag cat tcc ccc ggc agc ggc gcg gcc cgg cgg ccg      109
126 Met Ala Ser Gly Glu His Ser Pro Gly Ser Gly Ala Ala Arg Arg Pro
127 1 5 10 15
129 ctg cac tcc gcg cag gct gtg gac gtg gcc tcg gcc tcc aac ttc cgg      157
130 Leu His Ser Ala Gln Ala Val Asp Val Ala Ser Ala Ser Asn Phe Arg
131 20 25 30
133 gcc ttt gag ctg ctg cac ttg cac ctg gac ctg cgg gct gag ttc ggg      205
134 Ala Phe Glu Leu Leu His Leu His Leu Asp Leu Arg Ala Glu Phe Gly
135 35 40 45
137 cct cca ggg ccc ggc gca ggg agc cgg ggg ctg agc ggc acc gcg gtc      253
138 Pro Pro Gly Pro Gly Ala Gly Ser Arg Gly Leu Ser Gly Thr Ala Val
139 50 55 60
141 ctg gac ctg cgc tgc ctg gag ccc gag ggc gcc gcc gag ctg cgg ctg      301
142 Leu Asp Leu Arg Cys Leu Glu Pro Glu Gly Ala Ala Glu Leu Arg Leu
143 65 70 75 80
145 gac tcg cac ccg tgc ctg gag gtg acg gcg gcg gcg ctg cgg cgg gag      349
146 Asp Ser His Pro Cys Leu Glu Val Thr Ala Ala Ala Leu Arg Arg Glu
147 85 90 95
149 cgg ccc ggc tcg gag gag ccg cct gcg gag ccc gtg agc ttc tac acg      397
150 Arg Pro Gly Ser Glu Glu Pro Pro Ala Glu Pro Val Ser Phe Tyr Thr
151 100 105 110
153 cag ccc ttc tcg cac tat ggc cag gcc ctg tgc gtg tcc ttc ccg cag      445
154 Gln Pro Phe Ser His Tyr Gly Gln Ala Leu Cys Val Ser Phe Pro Gln
155 115 120 125
157 ccc tgc cgc gcc gcc gag cgc ctc cag gtg ctg ctc acc tac cgc gtc      493
158 Pro Cys Arg Ala Ala Glu Arg Leu Gln Val Leu Leu Thr Tyr Arg Val
159 130 135 140
161 ggg gag gga ccc ggg gtt tgc tgg ttg gct ccc gag cag aca gca gga      541
162 Gly Glu Gly Pro Gly Val Cys Trp Leu Ala Pro Glu Gln Thr Ala Gly
163 145 150 155 160
165 aag aag aag ccc ttc gtg tac acc cag ggc cag gct gtc cta aac cgg      589
166 Lys Lys Lys Pro Phe Val Tyr Thr Gln Gly Gln Ala Val Leu Asn Arg

```

## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/767,308A

TIME: 13:40:54

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01172006\J767308A.raw

167		165		170		175		
169	gcc ttc ttc cct tgc ttc gac acg cct gct gtt aaa tac aag tat tca							637
170	Ala Phe Phe Pro Cys Phe Asp Thr Pro Ala Val Lys Tyr Lys Tyr Ser							
171		180		185		190		
173	gct ctt att gag gtc cca gat ggc ttc aca gct gtg atg agt gct agc							685
174	Ala Leu Ile Glu Val Pro Asp Gly Phe Thr Ala Val Met Ser Ala Ser							
175		195		200		205		
177	acc tgg gag aag aga ggt cca aat aag ttc ttc ttc cag atg tgt cag							733
178	Thr Trp Glu Lys Arg Gly Pro Asn Lys Phe Phe Phe Gln Met Cys Gln							
179		210		215		220		
181	ccc atc ccc tcc tat ctg ata gct ttg gcc atc gga gat ctg gtt tcg							781
182	Pro Ile Pro Ser Tyr Leu Ile Ala Leu Ala Ile Gly Asp Leu Val Ser							
183	225		230		235		240	
185	gct gaa gtt gga ccc agg agc cgg gtg tgg gct gag ccc tgc ctg att							829
186	Ala Glu Val Gly Pro Arg Ser Arg Val Trp Ala Glu Pro Cys Leu Ile							
187		245		250		255		
189	gat gct gcc aat gag gag tac aac ggg gtg ata gaa gaa ttt ttg gca							877
190	Asp Ala Ala Asn Glu Glu Tyr Asn Gly Val Ile Glu Glu Phe Leu Ala							
191		260		265		270		
193	aca gga gag aag ctt ttt gga cct tat gtt tgg gga agg tat gac ttg							925
194	Thr Gly Glu Lys Leu Phe Gly Pro Tyr Val Trp Gly Arg Tyr Asp Leu							
195		275		280		285		
197	ctc ttc atg cca ccg tcc ttt cca ttt gga gga atg gag aac cct tgt							973
198	Leu Phe Met Pro Pro Ser Phe Pro Phe Gly Gly Met Glu Asn Pro Cys							
199		290		295		300		
201	ctg acc ttt gtc acc ccc tgc ctg cta gct ggg gac cgc tcc ttg gca							1021
202	Leu Thr Phe Val Thr Pro Cys Leu Leu Ala Gly Asp Arg Ser Leu Ala							
203	305		310		315		320	
205	gat gtc atc atc cat gag atc tcc cac agt tgg ttt ggg aac ctg gtc							1069
206	Asp Val Ile Ile His Glu Ile Ser His Ser Trp Phe Gly Asn Leu Val							
207		325		330		335		
209	acc aac gcc aac tgg ggt gaa ttc tgg ctc aat gaa ggt ttc acc atg							1117
210	Thr Asn Ala Asn Trp Gly Glu Phe Trp Leu Asn Glu Gly Phe Thr Met							
211		340		345		350		
213	tac gcc cag agg agg atc tcc acc atc ctc ttt ggc gct gcg tac acc							1165
214	Tyr Ala Gln Arg Arg Ile Ser Thr Ile Leu Phe Gly Ala Ala Tyr Thr							
215		355		360		365		
217	tgc ttg gag gct gca acg ggg cgg gct ctg ctg cgt caa cac atg gac							1213
218	Cys Leu Glu Ala Ala Thr Gly Arg Ala Leu Leu Arg Gln His Met Asp							
219		370		375		380		
221	atc act gga gag gaa aac cca ctc aac aag ctc cgc gtg aag att gaa							1261
222	Ile Thr Gly Glu Glu Asn Pro Leu Asn Lys Leu Arg Val Lys Ile Glu							
223	385		390		395		400	
225	cca ggc gtt gac ccg gac gac acc tat aat gag acc ccc tac gag aaa							1309
226	Pro Gly Val Asp Pro Asp Asp Thr Tyr Asn Glu Thr Pro Tyr Glu Lys							
227		405		410		415		
229	ggt ttc tgc ttt gtc tca tac ctg gcc cac ttg gtg ggt gat cag gat							1357
230	Gly Phe Cys Phe Val Ser Tyr Leu Ala His Leu Val Gly Asp Gln Asp							
231		420		425		430		

## RAW SEQUENCE LISTING

DATE: 01/17/2006

PATENT APPLICATION: US/10/767,308A

TIME: 13:40:54

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01172006\J767308A.raw

233	cag ttt gac agt ttt ctc aag gcc tat gtg cat gaa ttc aaa ttc cga	1405
234	Gln Phe Asp Ser Phe Leu Lys Ala Tyr Val His Glu Phe Lys Phe Arg	
235	435 440 445	
237	agc atc tta gcc gat gac ttt ctg gac ttc tac ttg gaa tat ttc cct	1453
238	Ser Ile Leu Ala Asp Asp Phe Leu Asp Phe Tyr Leu Glu Tyr Phe Pro	
239	450 455 460	
241	gag ctt aag aaa aag aga gtg gat atc att cca ggt ttt gag ttt gat	1501
242	Glu Leu Lys Lys Lys Arg Val Asp Ile Ile Pro Gly Phe Glu Phe Asp	
243	465 470 475 480	
245	cga tgg ctg aat acc ccc ggc tgg ccc ccg tac ctc cct gat ctc tcc	1549
246	Arg Trp Leu Asn Thr Pro Gly Trp Pro Pro Tyr Leu Pro Asp Leu Ser	
247	485 490 495	
249	cct ggg gac tca ctc atg aag cct gct gaa gag cta gcc caa ctg tgg	1597
250	Pro Gly Asp Ser Leu Met Lys Pro Ala Glu Glu Leu Ala Gln Leu Trp	
251	500 505 510	
253	gca gcc gag gag ctg gac atg aag gcc att gaa gcc gtg gcc atc tct	1645
254	Ala Ala Glu Glu Leu Asp Met Lys Ala Ile Glu Ala Val Ala Ile Ser	
255	515 520 525	
257	ccc tgg aag acc tac cag ctg gtc tac ttc ctg gat aag atc ctc cag	1693
258	Pro Trp Lys Thr Tyr Gln Leu Val Tyr Phe Leu Asp Lys Ile Leu Gln	
259	530 535 540	
261	aaa tcc cct ctc cct cct ggg aat gtg aaa aaa ctt gga gac aca tac	1741
262	Lys Ser Pro Leu Pro Pro Gly Asn Val Lys Lys Leu Gly Asp Thr Tyr	
263	545 550 555 560	
265	cca agt atc tca aat gcc cgg aat gca gag ctc cgg ctg cga tgg ggc	1789
266	Pro Ser Ile Ser Asn Ala Arg Asn Ala Glu Leu Arg Leu Arg Trp Gly	
267	565 570 575	
269	caa atc gtc ctt aag aac gac cac cag gaa gat ttc tgg aaa gtg aag	1837
270	Gln Ile Val Leu Lys Asn Asp His Gln Glu Asp Phe Trp Lys Val Lys	
271	580 585 590	
273	gag ttc ctg cat aac cag ggg aag cag aag tat aca ctt ccg ctg tac	1885
274	Glu Phe Leu His Asn Gln Gly Lys Gln Lys Tyr Thr Leu Pro Leu Tyr	
275	595 600 605	
277	cac gca atg atg ggt ggc agt gag gtg gcc cag acc ctc gcc aag gag	1933
278	His Ala Met Met Gly Gly Ser Glu Val Ala Gln Thr Leu Ala Lys Glu	
279	610 615 620	
281	act ttt gca tcc acc gcc tcc cag ctc cac agc aat gtt gtc aac tat	1981
282	Thr Phe Ala Ser Thr Ala Ser Gln Leu His Ser Asn Val Val Asn Tyr	
283	625 630 635 640	
285	gtc cag cag atc gtg gca ccc aag ggc agt tagaggctcg tgtgcatggc	2031
286	Val Gln Gln Ile Val Ala Pro Lys Gly Ser	
287	645 650	
289	ccctgcctct tcaggetctc caggctttca gaataattgt ttgttcccaa attcctgttc	2091
290	cctgatcaac ttcttgaggt ttatatcccc tcaggataat ctattctcta gcttaggtat	2151
291	ctgtgactct tgggcctctg ctctggtggg aacttacttc tctatagccc actgagcccc	2211
292	gagacagaga acctgcccac agctctcccc gctacaggct gcaggcactg cagggcagcg	2271
293	gggtattctcc tccccaccta agtctctggg aagaagtggg gaggactgat gctcttcttt	2331
294	tttctctttc tgtccttttt cttgctgatt ttatgcaaag ggctggcatt ctgattgttc	2391
295	ttttttcagg tttaatcctt attttaataa agttttcaag caaaaattaa aaaaaaaaaa	2451

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 01/17/2006  
PATENT APPLICATION: US/10/767,308A      TIME: 13:40:55

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\01172006\J767308A.raw

Base Note:

One or more of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 27

Seq#:8; Xaa Pos. 3,4,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23



## VERIFICATION SUMMARY

DATE: 01/17/2006

PATENT APPLICATION: US/10/767,308A

TIME: 13:40:55

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01172006\J767308A.raw

306 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
310 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16  
376 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
380 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
384 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:17

**Raw Sequence Listing before editing,  
for reference only**



IFW16

## RAW SEQUENCE LISTING

DATE: 01/13/2006

PATENT APPLICATION: US/10/767,308A

TIME: 15:50:06

Input Set : A:\Sequence listing.txt

Output Set: N:\CRF4\01132006\J767308A.raw

4 <110> APPLICANT: Kapeller-Libermann, Rosana  
5 White, David  
6 MacBeth, Kyle J.  
8 <120> TITLE OF INVENTION: 2786, A NOVEL HUMAN AMINOPEPTIDASE  
10 <130> FILE REFERENCE: MPI99-193CN2M  
12 <140> CURRENT APPLICATION NUMBER: US 10/767,308A  
13 <141> CURRENT FILING DATE: 2004-01-29  
15 <150> PRIOR APPLICATION NUMBER: US 09/443,795  
16 <151> PRIOR FILING DATE: 1999-11-19  
18 <150> PRIOR APPLICATION NUMBER: US 10/056,253  
19 <151> PRIOR FILING DATE: 2002-01-24  
21 <160> NUMBER OF SEQ ID NOS: 8  
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

**Does Not Comply  
Corrected Diskette Needed**

*see pp 2-3*

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2

<210> 8  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Zinc Binding Consensus Sequence

<221> VARIANT  
<222> (3)...(4)  
<223> Xaa = any amino acid

<221> VARIANT  
<222> (6)...(23)  
<223> Xaa = any amino acid

<400> 74 8 ← replace with  
His Glu Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15  
Xaa Xaa Xaa Xaa Xaa Xaa Glu  
20

10/762,308A

3

<210> 2  
<211> 2459  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (62)...(2011)

<221> misc\_feature  
<222> (1)...(3107)  
<223> n = A,T,C or G

<400> 2

delete because: 1) only 2459 nucleotides  
in the sequence  
2) no n's in the sequence

**VERIFICATION SUMMARY**

DATE: 01/13/2006

PATENT APPLICATION: US/10/767,308A

TIME: 15:50:07

Input Set : A:\Sequence listing.txt

Output Set: N:\CRF4\01132006\J767308A.raw

L:127 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:310 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:314 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16  
L:380 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:384 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:388 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:388 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:8 differs:74  
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0  
M:341 Repeated in SeqNo=8